LIFE AT THE EDGE
FROM PREBIOTIC CHEMISTRY TO EXTRATERRESTRIAL BIOLOGY
1990 Graduate Student Symposium

SYDNEY BRENNER (MRC Laboratory of Molecular Biology, Cambridge)
What is Life?

A. GRAHAM CAIRNS-SMITH (University of Glasgow)
Low Tech Life Forms

JOHN CROWE (University of California, Davis)
Life Without Water: Adaptations to Periodic Dehydration

DAVID DEAMER (University of California, Davis)
The Evolution of Membrane Structure

DONALD DEVINCENZI (NASA- Ames Research Center)
The Search for Life Beyond the Earth: Exploration Opportunities

E. IMRE FRIEDMANN (Florida State University)
A Terrestrial Model of Mars: Life in Antarctica

NORMAN HOROWITZ (California Institute of Technology)
The Biology of Utopia: Viking and the Search for Life on Mars

GERALD JOYCE (Scripps Clinic)
RNA Evolution

CHRISTOPHER MCKAY (NASA- Ames Research Center)
Peeking at the Outer Planets Through the Eyes of Voyager

STANLEY MILLER (University of California, San Diego)
Chemical Evolution on the Prebiotic Earth

NORMAN PACE (Indiana University)
The Origin and Evolution of Life Under Extreme Conditions

GEORGE SOMERO (Scripps Institute of Oceanography)
Life Without Light: Deep Sea Hydrothermal Vent Ecosystems

JACK SZOSTAK (Massachusetts General Hospital)
Towards the Design and Construction of a Simple Cell

PATHOGEN STRATEGIES:
EVASION AND SUPRESSION OF THE IMMUNE SYSTEM
1989 Graduate Student Symposium

GEORGE CROSS (The Rockefeller University)
The Glycosyl-Phosphotidlyinositol Membrane Anchor of the Trypanosome Variant Surface Glycoprotein: Its Structure, Synthesis, and Possible Role in Antigen Switching

FRED HEFFRON (Scripps Clinic and Research Foundation)
Genes Essential for *Salmonella* Survival Inside Macrophages

ERIK HEWLETT (University of Virginia School of Medicine)
Adenylate Cyclase Toxin of *Bordetella pertussis*: Altering the Immune Response

KEITH JOINER (National Institutes of Health)
Mechanisms of Complement Evasion by *Leischmania* and South American Trypanosomes

PHILIPPA MARRACK (Nat'l Jewish Cntr for Immunology)
The Body's Defense: An Overview of the Immune Response

THOMAS MEYER (Max Planck Institute)
Variation of a *Neisseria gonorrhoeae* Surface Antigen by Translational Control of Gene Expression

HANK SEIFERT (Northwestern University)
Genetic Regulation of Gonococcal Pilin Phase and Antigenic Variation

DAVID SIBLEY (Stanford School of Medicine)
Toxoplasma Modification of Phagosomes

JOSEPH SODROSKI (Harvard Medical School)
Mechanisms of Cell Killing by HIV

JACK STEVENS (University of California, Los Angeles)
Transcripts Involved in Chronic Herpesvirus Infections

LEX VAN DER PLOEG (Columbia University)
Duplicative Transposition of Variant Surface Glycoprotein Genes of African Trypanosomes

MARIE ROSE VAN SCHRAVENDIJK (DNAX Research Institute)
Antigenic Variation and Sequestration of Parasitized Blood Cells in Malaria Infection

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